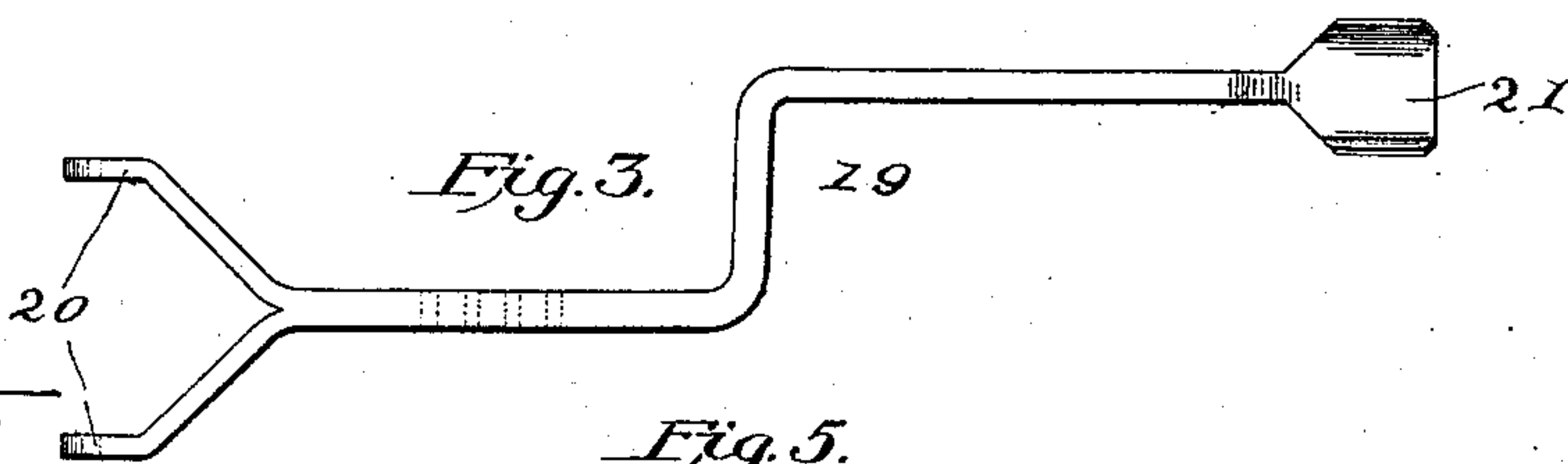
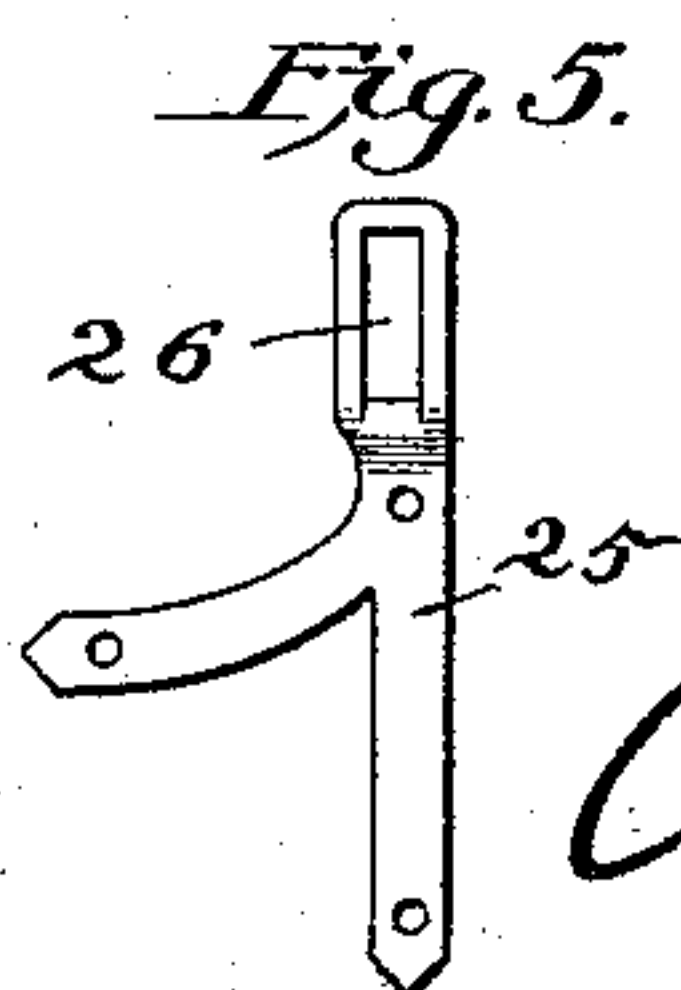
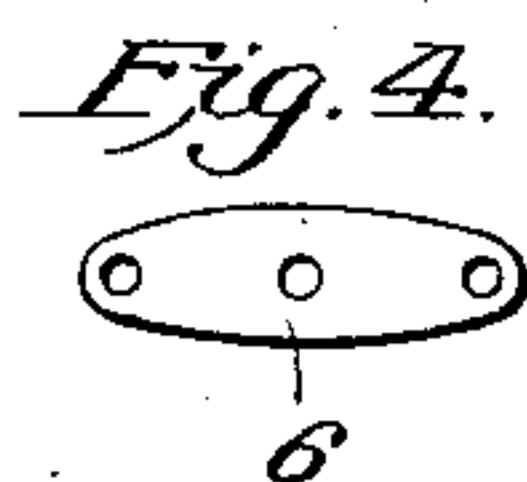


A. S. LOCKREM.
FOOT POWER HAMMER.

Patented May 28, 1895.



E. C. Martin
J. S. Mack
Witnesses:



Inventor:

Augustus Lockman

UNITED STATES PATENT OFFICE.

AUGUSTUS S. LOCKREM, OF PIERPOINT, SOUTH DAKOTA.

FOOT-POWER HAMMER.

SPECIFICATION forming part of Letters Patent No. 539,815, dated May 28, 1895.

Application filed June 18, 1894. Serial No. 515,318. (No model.)

To all whom it may concern:

Be it known that I, AUGUSTUS S. LOCKREM, a citizen of the United States, residing at Pierpoint, Day county, South Dakota, have
5 invented a new and useful Foot-Power Hammer, of which the following is a specification.

My invention relates to improvements in foot power hammers, the object of the same being to provide a device of this character
10 which is simple in construction, and effective in operation.

The invention consists of a frame pivotally mounted in a base or support and having pivoted in its upper end the hammer handle and
15 pivoted in its lower part an equalizer, to one end of which equalizer and to the outer end of which hammer is secured a coiled spring, and to the other end of said equalizer and to a bracket or support extending outward from
20 said frame is secured a second coiled spring, the said springs being provided for holding the hammer in its upright or raised position. Secured to the hammer handle is an adjusting bracket to which is attached one end of a
25 coiled spring, the other end of which is connected to an operating lever, whereby upon the depression of said lever, the hammer is forced down upon the anvil or other object to be struck thereby. I further provide an
30 adjusting device for the pivoted frame, whereby the same may be moved on its pivot a greater or less distance from the anvil in order that the hammer may be made to strike at a particular point thereon.

35 The invention also consists in other details of construction and combinations of parts which will be more fully hereinafter described and claimed.

In the accompanying drawings, forming a
40 part of this specification, Figure 1 represents a side elevation of my device. Fig. 2 is a rear view of the frame in which the hammer is mounted. Fig. 3 is a detail view of the operating-lever. Fig. 4 is a detail view of the
45 equalizer, and Fig. 5 is a detail view of a bracket in which the adjusting-lever is adapted to work.

Like reference-numerals indicate like parts in the various views.

50 1 represents a suitable base or support and 2 is a frame pivoted in a bracket 3 in said base or support. The said frame 2 consists of two

side bars 4 which are securely braced near their upper ends by means of brackets 5 and have pivoted near the lower ends thereof
55 the equalizer 6 which consists essentially of an elongated metallic disk perforated at its center and at its two ends.

In the upper part of the frame 2 is pivoted the hammer handle 7 which has an outwardly
60 extending toe-piece 8, to which and to one end of the equalizer 6 is connected a coiled spring 9.

10 is a bracket extending from the brace 5 in which I place a tension regulating bolt 11
65 to the upper side thereof. To the said bolt 11 and to the other end of the equalizer 6 is secured a second coiled spring 13. By means of these springs connected by the pivoted
70 equalizer 6, the tension on the hammer handle 7 is kept constant and the same may be regulated by means of the nut 12 and bolt 11.

The hammer handle 7 has secured to its outer end the hammer 14 and at one point in its length has bolted or otherwise secured
75 thereto a bracket 15 provided with a series of perforations 16. In one of the perforations 16 is a loop 17 to the other end of which is connected a coiled spring 18, which, in turn is connected by a suitable loop and yoke to
80 the operating lever 19. This lever is shown in detail in Fig. 3 with bifurcated ends 20 which are pivotally secured to the side bars 4 of the frame 2. The outer end of said lever 19 is bent, as clearly shown and is provided
85 with a foot piece 21 at its outer end, which passes around one side of the anvil support 22 and is held from upward movement therein by means of a bracket 23, as clearly shown. The anvil support 22 has an anvil 24 of ordi-
90 nary construction secured to its upper surface.

Along the inner face of the anvil support 22 is a bracket 25 formed with a slot 26 in its upper end, as clearly shown in Fig. 5. Through
95 this slot passes an adjusting lever 27 which is pivoted at its forward end to the side bars 4 of the frame 2. On its lower face this adjusting lever is provided with a series of notches 28 which are adapted to be engaged
100 by the lower edge of the slot 26 in the bracket 25. A spring 29 is secured to the upper end of the bracket 25, its outer end bearing against the lever 27 to hold the latter in its adjusted

position. By this construction, it will be seen that the frame 2 may be moved back and forth on its pivot and adjusted in any desired position, the springs 9 and 13 by means of the equalizer 6 holding the hammer in the proper raised position; whatever may be the adjusted position of the frame 2.

It is of course understood that the force of the blow on the hammer may be regulated by adjusting the loop in one or the other of the perforations 16 in the bracket 15.

To operate my device, power is applied to the outer end of the operating lever 19 by placing the foot upon the foot piece 21 and depressing the same quickly. The spring 18 is thereby extended, bringing the hammer 14 down upon the anvil 24.

The invention has been described in its preferred form, but it is obvious that many minor changes might be made therein without departing from the nature or spirit of the invention or sacrificing any of its advantages.

Having thus described the invention, what is claimed as new is—

1. In a device of the character set forth, the combination with a frame in the upper end of which is pivoted a hammer handle, an equalizer pivoted in said frame, a coiled spring pivoted to one end of said equalizer and to the toe piece of said hammer handle and a coiled spring pivoted to the other end of said equalizer and to a bracket extending outward from said frame, and an operating lever pivoted to said frame and connected to said handle by means of a coiled spring, substantially as and for the purposes described.

2. In a device of the character set forth, the combination of a frame in the upper end of which is pivoted a hammer handle, an equalizer pivoted in said frame, a coiled spring connected to one end of said equalizer and to the toe piece of said hammer handle, a coiled spring connected to the other end of said equalizer and to a bracket extending outward

from said frame, means for adjusting the tension of said spring, an operating lever pivoted to said frame and a coiled spring adjustably connected to said hammer handle, substantially as and for the purposes described.

3. In a device of the character set forth, the combination of a pivoted frame, a hammer handle pivoted to the upper end of said frame, an equalizer pivoted in said frame, a coiled spring connected to one end of the said equalizer and the toe piece of said hammer handle, a coiled spring connected to the other end of said equalizer and to a bracket extending outward from said frame, an operating lever pivoted to said frame and adjustably connected to said hammer handle and means for adjusting said pivoted frame, substantially as and for the purposes described.

4. In a device of the character set forth, the combination of a pivoted frame, a hammer handle pivoted to the upper end of said frame, an equalizer pivoted in said frame, a coiled spring connected to one end of the said equalizer and the toe piece of said hammer handle, a coiled spring connected to the other end of said equalizer and to a bracket extending outward from said frame, an anvil support having a stop thereon, an operating lever pivoted to said frame and held against upward movement by said stop and adjustably connected to said hammer handle by means of a coiled spring, a bracket secured to the inner face of said anvil support having an elongated slot in the upper end thereof and an adjusting lever for said pivoted frame moving in said slot connected to said frame and provided with a series of notches on its under side, substantially as and for the purposes described.

AUGUSTUS S. LOCKREM.

Witnesses:

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